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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,942	07/30/2003	Lichen Wang	M-15074-1P US	1753
	7590 03/23/2007 N KWOK CHEN & HEIJ	EXAMINER		
2033 GATEWA		DANG, HUNG Q		
SUITE 400 SAN JOSE, CA 95110			ART UNIT	PAPER NUMBER
			2612	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 03/23/20		03/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-		Application No.	Applicant(s)			
		10/631,942	WANG ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Hung Q. Dang	2612			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
	Responsive to communication(s) filed on <u>26 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims		·			
5)	Claim(s) 1-64 is/are pending in the application. 4a) Of the above claim(s) 9-64 is/are withdrawn Claim(s) is/are allowed. Claim(s) 1-8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	from consideration.				
9) 🔲 🤈	The specification is objected to by the Examine	г.				
	The drawing(s) filed on 30 July 2003 is/are: a) Applicant may not request that any objection to the capelacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Explanation is objected to be a supplemental to the control of the capelacement of the cap	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	inder 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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DETAILED ACTION

1. This communication is in response to applicant's response to restriction requirement. Applicant's election without traverse of group I, claims 1-8, in the reply filed on 2/26/2007 is acknowledged and the restriction requirement is final.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 and 3 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee U.S. Patent 6,556,187.

Regarding claim 1, Lee discloses a wireless data transmission method, comprising:

- providing a first data segment (Figure 5, "Byte 1" is the first data segment);
- Veryfying that the first data segment includes a desired constant (column 3, lines 36-60; the constant in this case can be the device's ID, with respect to each transmission);

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 Providing a variable second data segment that indicates making a key or breaking a key (column 3, lines 62-65; Byte 2 is the second data segment; "key pressed" = key making; "key released" = key breaking);

- Providing a third data segment to indicate a context code (paragraph bridging columns 3-4); and
- Providing a fourth data segment as an error check of the second and third data segments (column 4, lines 7-10).

Regarding claim 3, the second data segment disclosed by Lee also indicates the releasing of a single pressed key (column 3, lines 62-65).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee U.S. Patent 6,556,187.

Regarding claim 8, Lee teaches the method of claim 8 with a checksum algorithm. However, Lee does not specifically teach a "cyclic redundancy" checksum algorithm. The examiner takes official notice that cyclic redundancy checksum

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algorithm has been commonly used in data communication systems for solving transmission errors. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to provide cyclic redundancy checksum algorithm to the wireless data transmission method disclosed by Lee in order to solve data transmission errors.

6. Claims 2 and 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee U.S. Patent 6,556,187 in view of Kuo U.S. Patent 6,760,773.

Regarding claim 2, as mentioned above, Lee teaches the method of claim 1 containing a constant in the first data segment, except wherein said data in the first segment is represented by hexadecimal FF.

Kuo, in the same field of endeavor, teaches a wireless data transmission method for transmitting make codes and break codes from a keyboard, wherein said codes are represented by hexadecimal codes (column 2, lines 37-46). Even though, Kuo does not specifically disclose that the first data segment is a hexadecimal FF, however, the specification of this application does not disclose the criticality as to why the data segment has to be hexadecimal FF (any hexadecimal representation would be functionally equivalent as "FF").

Therefore, it would have been obvious to one skilled practitioner to derive such hexadecimal code (FF) (or any other hexadecimal code) to represent the first data segment disclosed by Lee in view of Kuo through routine experimentations.

Claims 4-7 are rejected for the same reasons as the rejection of claim 2.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Q. Dang whose telephone number is (571) 272-3069. The examiner can normally be reached on 9:30AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (571) 272-7308. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hung Q Dang 3/14/2007 H.D.

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